

**Amendments to the Claims:**

This listing of claims will replace all prior version, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-31 (Canceled)

Claims 32-35 (Canceled)

36. (Currently amended) An isolated ~~The  $\beta$ -glucuronidase of claim 32,~~ wherein the  $\beta$ -glucuronidase is encoded by a nucleic acid molecule comprising nucleotides 1-1689 of SEQ ID NO: 14 ~~Figure 4I-J~~ or by a nucleic acid molecule that hybridizes under stringent conditions to the complement of nucleotides 1-1689 of SEQ ID NO: 14 ~~Figure 4I-J~~ and which encodes a functional  $\beta$ -glucuronidase.

37. (Currently amended) An isolated ~~The  $\beta$ -glucuronidase of claim 32,~~ comprising the amino acid sequence[[s]] of SEQ ID NO: 6 ~~Figure 5B,~~ or a variant thereof, wherein the variant has 90% amino acid identity to SEQ ID NO: 6 and ~~which~~ wherein the variant has encodes a functional  $\beta$ -glucuronidase activity.

Claims 38-59 (Canceled).

60. (New) An isolated fusion protein, comprising  
a  $\beta$ -glucuronidase that is encoded by a nucleic acid molecule comprising nucleotides 1-1689 of SEQ ID NO: 14 or by a nucleic acid molecule that hybridizes under stringent conditions to the complement of nucleotides 1-1689 of SEQ ID NO: 14 and which encodes a functional  $\beta$ -glucuronidase, and  
a peptide.

61. (New) The fusion protein according to claim 60, wherein the peptide is hexa-His or streptavidin.

62 (New) An isolated fusion protein, comprising  
a  $\beta$ -glucuronidase comprising the amino acid sequence of SEQ ID NO: 6 or a variant thereof, wherein the variant has 90% amino acid identity to SEQ ID NO: 6 and wherein the variant has  $\beta$ -glucuronidase activity, and  
a peptide.

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63. (New) The fusion protein according to claim 62, wherein the peptide is hexa-His or streptavidin.